REMARKS

Claims 1 - 28 are now pending in the application. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

REJECTION UNDER 35 U.S.C. § 103

Claims 1-7, 10-17, 20-26 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Dhyanchand (U.S. Pat. No. 5,057,808) in view of Yasohara (U.S. Pat. No. 6,812,667). This rejection is respectfully traversed.

With respect to claim 1, Dhyanchand fails to show, teach, or suggest a controller that calculates an available current based on first and second adjusted phase currents and generates a voltage control signal based on the available current.

Applicant can find no mention of a controller that calculates an available current based on first and second adjusted phase currents and generates a voltage control signal based on the available current in Dhyanchand. As best understood by Applicants, Dhyanchand generates constant frequency AC power from a variable speed prime mover. More specifically, a generator (20) converts a variable speed motive power produced by a prime mover (10) into a variable frequency AC power. An AC/DC converter (22) converts the variable frequency AC power into DC power and an inverter (26) reconverts the DC power into a constant frequency AC power. In this manner, a variable frequency AC power is converted into a constant frequency AC power.

Yasohara et al. fails to cure the deficient teachings of Dhyanchand. Yasohara fails to show, teach, or suggest a controller that calculates an available current based

on first and second adjusted phase currents and generates a voltage control signal based on the available current. As best understood by Applicants, Yasohara provides a system to drive a brushless DC motor from a DC power supply. The system includes three positions sensors (101, 103, 105) and a waveform generator (80) powered by a DC power supply (86). The position sensors (101, 103 105) are used in conjunction with the waveform generator (80) to generate a driving waveform. Yasohara ensures that the phases of the driving waveform are such that each phase of back electromotive force induced in the respective phase coils generally coincide with a phase of the alternating current running through coils of the motor. Therefore, Yasohara shows how to adjust the phase of an alternating current but does not show how to calculate an available current based on first and second adjusted phase currents or how to generate a voltage control signal based on the available current. Thus, reconsideration and withdrawal of the rejection of claim 1 is respectfully requested.

Claims 10 and 20 are allowable for at least similar reasons as claim 1. Therefore, reconsideration and withdrawal of the rejection is respectfully requested.

Claims 2-7, 11-17, and 21-26 each ultimately depend on claims 1, 10, and 20 respectively and are therefore allowable for at least similar reasons.

ALLOWABLE SUBJECT MATTER

The Examiner states that claims 8-9, 18-19, and 27-28 would be allowable if rewritten in independent form. Applicants have presently refrained from rewriting claims 8-9, 18-19, and 27-28 in view of the discussion above. Applicants reserve the right to

amend claims 8-9, 18-19, and 27-28 into their originally allowable form at a later date if needed.

OTHER CLAIM AMENDMENTS

Claim 2 has been amended to provide proper antecedent basis. More specifically, the term "said converter" of original claim 2 lacked proper antecedent basis. Claim 2 has been amended to recite "said inverter," which finds proper antecedent basis in claim 1. No new matter has been entered.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (313) 665-4969.

Respectfully submitted,

Dated: May 27, 2005

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